

ELECTRONIC MONITORING SYSTEMS AND METHODS

ABSTRACT

Electronic monitoring systems and methods that permit full-time tracking and management of, and communication with, monitored clients that carry a client tracking unit and wear a transmitter, by a monitoring individual that carries a wireless portable monitoring device. A central monitoring station having a central database is ported to a plurality of processor interfaces, including RF, GPS, and integrated voice, for example. The central database is wirelessly linked to the portable monitoring device, which is programmed to remotely track and manage clients by way of the respective interfaces. A monitoring unit is coupled to (or includes) a dock that docks the client tracking unit. The client tracking unit has a GPS receiver that receives position signals from satellites orbiting the Earth to permit tracking of the client. The client tracking unit has a battery that houses a receiver that receives signals transmitted by the transmitter and monitors transmitted signals to determine if an alarm event has occurred relating to the transmitter or location of the client. The portable monitoring device has cellular and web browser capabilities that provide access to the central monitoring station by way of a network, and permits retrieval and changing of information by the monitoring individual regarding monitored clients. Information regarding specific clients or a group of clients may be retrieved (optionally using voice commands) from the central monitoring station, modified by the monitoring individual, or selected clients may be directly communicated with using the voice capabilities of the portable monitoring device and client tracking unit.